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OCI
Notes on
Methodology

OFFICIAL USE ONLY

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THE OCI UNITED NATIONS VOTING FILE

The UN Voting File is now available for use by any OCI analyst. The file is a set of computer programs that permit rapid retrieval and comparison of the voting records of any UN member nation or any group of nations. The data contain the recorded votes in every General Assembly from 1946 to 1974. Response time is "same day": printed answers to most queries can be expected within 1-3 hours.

The system can provide answers to simple reference questions such as the specific vote of a nation on a certain issue. Analysts may also use it to determine the votes of the entire membership on a certain issue.

The UN Voting File can be used to chart the rate of agreement between any two nations over a specified time period. For example, an analyst may wish to compare the degree to which Yugoslavia and the USSR voted together between 1965-1970. The system computes this on a yearly basis as shown in Figure 1.2

If greater detail is required, the system prints a listing that describes each resolution and the voting position of the two nations. A sample of this listing is shown in Figure 2, which is a comparison of Yugoslav and Soviet positions in 1958. Interpret the headings on the listing this way:

DATE: Date of the vote by year and month.

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Figure 1

COMPARISON OF YUGOSLAVIA AND USSR, 1965-1970

YEARLY LISTING OF RICE-BEYLE INDEX OF VOTING COHESION

RICE-BEYLE	INDEX	OF	VOTING	COHESION	FOR	1965	89.29
RICE-BEYLE	INDEX	OF	VOTING	COHESION	FOR	1966	89.62
RICE-BEYLE							
RICE-BEYLE							
RICE-BEYLE							
RICE-BEYLE	INDEX	OF	VOTING	COHESION	FOR	1970	79.85

Figure 2

UNITED NATIONS VOTE SUMMARY FOR YUGOSLAV AND USSR

	C	OMPARISON	OF YUGOSI	LAVIA AND US	SR, 1958 -	
DATE	RES NO	YUGOSLAV	USSR	<subject></subject>	<where></where>	<episqde></episqde>
5 809	0	NO	NO	TERRIT	PLENARY	EWH
5 809	1239	YES	YES	MEMBER	PLENARY	ENR
5 809	1239	YES	YES	ADMINI	PLENARY	EWR
5809	1239	NO	NO	MEMBER	PLENARY	EWR
5809	1239	NO	NO	MEMBER	PLENARY	EWR
5809	1239	NO	NO	MEMBER.	PLENARY	EWR .
5810	0	YES	YES	ECGASS	PLENARY	NAO
5810	1245	YES	YES	REFUGE	PLENARY	AFN
5810	1248	YES	YES	CIVILR	PLENARY	AFA
5810	1248	YES	YES	CIVILR	PLENARY	AFA
5810	1248	YES	YES	CIVILR	PLENARY	AFA
5810	1248	YES	YES	CIVILR	PLENARY.	NAD
5810	1248	YES	YES	CIVILR	PLENARY	AFA
5810	1248	YES	YES	CIVILR	PLENARY	AFA
5811	1252*	ABS	NO	ATOMIC	PLENARY	EWU
5811	1252	YES	YES	ATOMIC	PLENARY	EWU
5811	1263*	YES	NO	BUDGET	PLENARY	NE5
5811	1264*	ABS	NO	TERRIT	PLENARY	EWK
5812	0*	ABS	NO	MEMBER	PLENARY	NAD
5812	1302	YES	YES	CIVILR	PLENARY	AFI
5812	1307	YES	YES	TREATY	PLENARY	SEA
5812	1307	YES	YES	TREATY	PLENARY	SEA
5812	1312	NO	NO	CIVILR	PLENARY	EWH
5812	1317	YES	YES	INDDEV	PLENARY	NAD
5812	1318*	ABS	NO	TRADE	PLENARY	NAO
5812	1318	YES	YES	TRADE	PLENARY	NAD
5812	1351*	YES	NO	BUDGET	PLENARY	NAG
5812	1348*	ABS	NO	SCIENT	PLENARY	NAO
5812	0	ABS	ABS	COLIND	PLENARY	MEA
5812	0	NO	NO	COLIND	PLENARY	MEA
5812	. 0	YES	YES	COLIND	PLENARY	MEA

* = VOTE DIFFERENTLY

= A MEMBER BUT DIDN'T VOTE OR ABSTAIN *** = NOT A UN MEMBER AT TIME OF VOTE

RICE-BEYLE INDEX OF VOTING COHESTON = 85.48

RES. NO: UN resolution number when such a

number is assigned.

YUGOSLAV: Voting position of Yugoslavia.

USSR: Voting position of the USSR.

SUBJECT: Subject code based on the UN's

own classification system (Colonial, Legal, etc.). A complete list of the subject codes

can be found in the Appendix.

WHERE: Type of session in which the vote took place (plenary, 1st

Committee, etc.).

EPISODE: Episode code. Some resolutions

are related to international events, such as Chinese membership in the UN, or to specific geographic areas. A complete list of the Episode codes can

be found in the Appendix.

It is also possible to include a short abstract of each vote. An example of the abstracts is shown in Figure 3 on the following page.

The UN Voting File also can measure the cohesiveness or solidarity exhibited by a group of nations. The user may specify one of six predefined groups or he may select a set of nations of his own choosing.³

For example, an analyst may wish to determine whether the Group of 77--the caucus of developing nations--votes as a solid bloc on all issues or tends to show solidarity only on certain kinds of issues. As shown in Figure 4, the listing printed in response to such a query shows first the voting outcome for each resolution, with the distribution of votes for the entire membership (TOTAL VOTE). The next line is a series of codes describing the resolution. The EPISODE, WHERE, SUBJECT, and DATE

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Figure 3

UNITED NATIONS VOTE SUMMARY FOR YUGOSLAV AND USSR

	C	OMPARISON	OF YUGOS	LAVIA AND US	5a. 1958		
DATE	RES NO	YUGOSI.AV	USSR	<subject></subject>	<where></where>	<ep i="" sode<="" th=""><th>⇒</th></ep>	⇒
5 809	0	NO	NO	TERRIT	PLENARY	Еพн	RECOM INCL OF ITEM 69 ON QUES OF HUNGARY IN AGENDA.(GAOR-13-55)
5 809	1239	YES	YES	MEMBER	PLENARY	EWR	REJECT INDIA PROPOSAL TO INCLUDE ITEM ON CHINA REPRESENTA TION IN UN. (GAOR-13-106A)
5809	1239	YES	YES	ADHINI	PLENARY	EWR	AMEND DELETING PARA 2 WHICH DECIDES NOT TO CONSIDER PROPO SALS TOEXCLUDE NATIONALIST CHINA OR SEAT RED CHINA IN UN (
5 803	1239	NO	NO	MEMBER	PLENARY	EWR	GADR-13-1068) PARA I OF RECOM REJECTING INDIAN REQUEST TO INCLUDE ITEM ON CHINA REPR. (GADR-13-106)
5809	1239	NO	NO	MEMBER	PLENARY	EWR	PARA 2 OF GEN COMTE RECOM (A/3926), TO IGNORE ANY FURTHER PROPOSALS ON REPR OF CHINA IN THIS SESSION.(GAOR-1
5 809	1239	NO	NO	MEMBER	PLENARY	EWR	3-107A) GEN COMTE RECCH ON(A/3926) CHINA REPR.(GADS-13-107B)
5810	υ	YES	YES	ECOASS	PLENARY	NAD	MBRS OF GOV COUN OF SPEC FUND FOR ECON ASST TO UNDER -DE V STATES TO BE ELECTED FROM UN MBRS OR SPEC AGENCIES
5810	1245	YES	YES	REFUGE	PLENARY	AFN	(GAOR-13-387) GP PARA 3 OF 4TH COMTE RES (A/3959) ON S W AFRICA; EXPRES SES DEEP CONCERN OVER CONDITIONS IN S W AFRICA-(GAOR-1
5810	1246	YES	YES	CIVILR	PLENARY	AFA	3-410) S AFRICA TO OBSERVE CHARTER OBLIG ATION CONCERNING APART HEID POLICIES. (GAOR-13-412)
5810	1248	YES	YES	CIVILR	PLENARY	AFA	NEED FOR LEGISLATION & PRACTICE TO ENSURE PEACE , HARMON Y & MU-TUAL RESPECT OF RTS IN MULTI-RACIAL SOCIETY.(GAOR-
5810	1248	YES	YES	CIVILR	PLENARY	AFA	13-413A) RES(A/3962) PARA 2 AFFIRMS INCONSISTENCY OF DISCRIM POLIC IES OF MEMBER STATES.(GADR-13-413B)
5810	1248	YES	YES	CIVILR	PLENARY	NAC	PARA 3-UN MBRS TO CONFROM TO CHARTER OBLIGS CONCERNING HUMAN RIS & FREEDOMS.(GAOR-13-413C)
5810	1248	YES	YES	CIVILR	PLENARY	AFA	RES(A/3962) PARA 4 REGRET AT S AFRICA DISREGARD OF APPEAL S FOR CHANGE OF APARTHEID POLICY. (GADS-13-413D)

NOTE: * = VOTE DIFFERENTLY

= A MEMBER BUT DIDN'T VOTE OR ABSTAIN

*** = NOT A UN MEMBER AT TIME OF VOTE

Figure 4

**********SUMMARY OF UNITED NATIONS VOTING ISSUES FOR 1970******** COHESION OF THE 77 ON AFRICAN COLONIAL ISSUES YES NO ABST ABS 12 ' TOTAL VOTE 127 85 11 RESOL# 2703 9.4 15.0 8.7 TOTAL VOTE 4 = 66.9 <TYPE> CDATE> <EPISODE> <WHERE> <SUBJECT> <SERIAL> SUBSTANT PLENARY 41COLIND 100 7012 AFP OF 77 GROUP POSITION ON THIS VOTE FOR GROUP YES ABST ABS ND GROUP VOTE 0 3 16 71 GROUP VOTE % = 78.9 0.0 3.3 17.8 LEVEL OF SOLIDARITY ... 89.4% GROUP COUNTRIES VOTING "NO" LATIN AMER. ASIA..... EUROPE AFRICA... MIDDLE EAST GROUP COUNTRIES ABSTAINING LATIN AMER. BRAZIL ASIA.... EUROPE AFRICA.... GADON MALAWI MIDDLE EAST GROUP COUNTRIES VOTING "YES" DOM REP ECUADOR GUATEMAL COLUMBIA CUBA LATIN AMER. ARGENTI BARBADOS CHILE NICARAG PANAMA PARAGUAY GUYAN'A ITIAH HONDURAS JAMAICA MEXICO TRIN/TOB URUGUAY VENEZUEL PER MALAYSIA NEPAL CAMBODIA CEYLON INDIA INDUNES LADS BURMA ASIA.... SINGAPOR THAILAND PHILIPP EUROPE.... YUGOSLAV EQ-GUINE ETHIOPIA CAMBIA **GHANA** CAMEROON CENT-AFR ZAIRE AFRICA.... BURUNDI MAURITAN MAURITIS MALAGASY MALI IVORY CO KENYA LIBERIA GUINEA TANZANIA TOGO **UGANDA** NIGERIA SIERRA L SOMALIA SUDAN NIGER UP-VOLTA ZAMBIA MIDDLE EAST ALGERIA IRAN MORDCCO IRAQ JORDAN KUWAIT LEBANON LIBYA SAUDI AR S.YEMEN SYRIA TUNISIA EGYPT GROUP COUNTRIES ABSENT LATIN AMER. BOLIVIA COSTA RI EL SALVA MALDIVE PAKISTAN ASIA.... AFGHAN FIJI EUROPE.... DAHOMEY LESGTHO RWANDA SENEGAL SWAZILAN CONGO AFRICA.... BOTSWANA CHAD MIDDLE EAST YEMEN STATISTICS FOR YEAR 1970

NUMBER OF VOTES PROCESSED = AVERAGE LEVEL OF SOLIDARITY FOR GROUP OF 77

Ð

.... 89.31

codes are identical to those described above. SERIAL refers only to the identification number assigned to each vote. TYPE indicates whether a vote is procedural or substantive; the former usually is a vote on an amendment.

The program then prints the distribution of votes from the specified group (GROUP VOTE) and the percentages cast for each voting position (GROUP VOTE %).4 The next figure (LEVEL OF SOLIDARITY) is a measurement of the cohesiveness of the group on this resolution. 5 The computer then prints the voting position of each nation. The program also computes the average solidarity for the group for each year. 6 It is also possible to include the abstract of each resolution, as in Figure 3. Finally, the system can provide assistance in conducting a statistical analysis of the voting behavior of certain nations. A variety of statistical programs already available on the OJCS system can be used for this. 7 To operate these programs for most applications, it is necessary to have data coded and keypunched on IBM cards, and even with only a moderate volume of data this process can take as long as two weeks.

To get around this delay, the UN Voting File has been programmed to enable producing a set of keypunched data cards in a format compatible with the statistical programs. This data set usually can be produced within 4-6 hours. As soon as the pre-punched program cards required for the desired statistical analysis are added, the program can be run.

Operation of the UN Voting File for other than such statistical analyses is not difficult. Posing a complex query rarely requires more than ten minutes of the user's time at the terminal on the OJCS interactive system. For example, the user may wish to examine the agreement between the USSR and Yugoslavia on Colonial subjects relating to Africa between 1965-1970. The user may also wish to look only at plenary votes, exclude procedural votes,

and obtain an abstract of each resolution. To obtain the answer to this query, the user must enter the following 10 statements:

```
COUNTRY1 = 'YUGOSLAV',

COUNTRY2 = 'USSR',

YR1 = '1965',

YR2 = '1970',

TITLE = 'COMPARISON OF YUGOSLAVIA AND THE USSR, 1965-70',

SUBJECT_GROUP (1) = '4',

EPISODE_GROUP (1) = 'AF',

WHERE_VOTE (1) = 'PLENARY',

TYPE_ISSUE = 'SUBSTANT',

SEE ABSTRACT = 'YES';
```

The UN Voting File is operated by the Methods and Technology Staff in OCI. Requests for its use may be addressed to

25X1A

25X1A

FOOTNOTES

The data file for this system was obtained from its originators: the US Naval Academy Political Science Department and the Office of Management Systems in the US Department of State.

of the Office of Joint Computer Services wrote the programs that operate the system at CIA.

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The formula used to measure the amount of agreement is known as the Rice-Beyle Index of Voting Cohesion:

$$IVC = \frac{f + 1/2 (g)}{t}$$

Where IVC = Index of Voting Cohesion

f = Number of votes in which both
 nations agreed

g = Number of votes where one nation abstained and the other voted either yes or no.

t = Total number of votes.

This formula distinguishes between complete yes-no disagreement and partial disagreement. Partial disagreement occurs when one nation abstains and the second votes yes or no. If this difference were not provided for, the same level of agreement would be obtained in cases as disparate as the following:

- (a) US votes yes on all issues, Cuba votes no on all issues. Percentage of agreement = 0.0 percent.
- (b) US votes yes on all issues, Mexico abstains on all issues. Percentage of agreement = 0.0 percent.

However, using the IVC formula above, the second case would reflect not total disagreement, but rather a partial agreement of 50%.

$$IVC = 0 + 1/2 \times 1 = 1/2 = 50%$$

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The Index of Voting Cohesion in Figure 2 was computed as follows:

$$f = 24$$
 IVC = $\frac{24 + 1/2(5)}{31} = 85.48$

g = 5

t = 31

- 3 The six pre-defined groups which may be selected by the analyst are: the Group of 77, the Nonaligned nations, Latin American nations, the Organization of American States, the Soviet and East European nations, and NATO.
- 4 There are now 105 members in the Group of 77, of which 99 are UN members. In 1970, there were 90 members of the Group of 77 who were also UN members.
- The Level of Solidarity measures the degree to which the members of the group vote the "group position." This position is defined simply as the position receiving the most votes. If, for example, 45 nations voted "yes" and 30 voted "no," the group position would be "yes.") The formula is:

$$s = \frac{N + 1/2(a)}{t}$$

Where S = Level of Solidarity

- N = number of nations who agreed completely with group position.
- a = number of nations who agreed partially with the group position. Partial agreement occurs when the group position is yes or no and a nation abstains or is absent. Partial agreement can also occur if the group position is abstain and a nation votes yes or no.

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t = total number of nations in the group.

To compute the Level of Solidarity displayed in Figure 4:

N = 72
a = 9 (abstentions) + 11 (absent)
t = 95
s =
$$\frac{72 + 1/2 (9+11)}{95}$$
 = 86.3%

- Average solidarity is computed by summing the solidarity level for each resolution and dividing by the total number of resolutions.
- 7 The majority of these measures are found in the program package known as "Biomedical Computer Programs" developed at UCLA.

APPENDIX

SUBJECT CODES

1. POLITICAL

POLGEN = Political (General)

DISARM = Disarmament and Weapons

ATOMIC = Peaceful Uses of Atomic Energy

TERRIT = Unification/Territorial Integrity (of Sovereign Nations)

CIVILR = Internal Politics/Civil Rights

PEACE = Peacekeeping (incl. Funding, Admin. Factfinding)

2. ECONOMIC

EOCOGEN = Economic (General)

INDDEV = Industrial Development AGRICUL = Food and Agriculture

ECOASS = Assistance

TRADE = Trade

3. SOCIAL, TECHNICAL, CULTURAL

SOCGEN = Social (General)

CULTUR = Social Cultural

SCIENT = Scientific/Technical

HEALTH = Medical/Health/Environment

REFUGE = Humanitarian/Refugee/Human Rts.

EDUCAT = Education

4. COLONIAL/TRUSTEESHIPS

COLGEN = Colonial Trusteeships

COLIND = Reforms/Independence/Self-Determination

COLRTS = Internal Civil Rights (in colonies)

5. UNO ADMIN AND FINANCE

ADMGEN = General

BUDGET = Budgetary

ADMINI = Administration

MEMBER = Membership

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LEGAL

LGLGEN = General

INTLAW = International Court of Justice

TREATY = Treaties/Legal Instruments

INVETS = Investigations/Factfinding (not Incl. Peacekeeping)

EPISODE CODES

GROUP CODE

EAST-WEST CONFRONTATIONS EW

EWM MISCELLANEOUS

BALKANS (GREEK CIVIL WAR, HUMAN RTS, ETC.) EWB

EWC CUBAN MISSILE CRISIS

EWU USA VS USSR (IDEOLOGICAL DIFFERENCES--COLD WAR)

EWK KOREAN CONFLICT

CHINA GENERAL (POLITICAL QUES., TIBET SITUATION, ETC.) EWG

EWR CHINA UNITED NATIONS REPRESENTATION

HUNGARIAN CRISIS (USSR INVASION & AFTERMATH) EWH

RELATIONS WITH FRANCO SPAIN EWS

MIDDLE EAST CONFRONTATIONS (INCLUDE NORTH AFRICAN ARAB STATES) ME

UN MEMBERSHIP MEM

PALESTINE PARTITION/POLITICAL SOLUTION (CONCILIATION COMISN) MEP

MER PALESTINIAN REFUGEES (UNRWA)

ALGERIAN SITUATION MEA

TRUSTEESHIPS/COLONIAL/INDEPENDENCE (MOROCCO, TUNISIA) MET

1948 WAR ME4

1956 WAR ME 5

ME 6 1967 WAR

1973 WAR ME 7

MEG CENERAL & MISCELLANEOUS

AMERICAS AM

MEMBERSHIP (UN AND OTHER ORGANIZATIONS) AMM

TRUSTEESHIPS/COLONIAL/INDEPENDENCE AMT

GENERAL & MISCELLANEOUS AMG

EU EUROPE

EUM MEMBERSHIP

EUC CYPRUS

EUR GENERAL & MISCELLANEOUS

EUT TRUSTEESHIP/COLONIAL/INDEPENDENCE

AS ASIA

ASM MEMBERSHIP

AST TRUSTEESHIP/COLONIAL/INDEPENDENCE

ASG GENERAL & MISCELLANEOUS

PA PACIFIC (AUSTRALIA, NEW ZEALAND, ISLANDS)

PAM MEMBERSHIP

PAT TRUSTEESHIP/COLONIAL/INDEPENDENCE

PAG GENERAL & MISCELLANEOUS

AF AFRICA (NON-ARAB STATES)

AGF GENERAL MISCELLANEOUS

AFI TREATMENT OF INDIANS IN S. AFRICA

AFM MEMBERSHIP

AFT TRUSTEESHIP/COLONIAL/INDEPENDENCE EXCEPT S.W. AFRICA

AFA APARTHEID IN S. AFRICA (RACISM ELSEWHERE IN AFRICA)

AFN S. AFRICA & S.W. AFRICA DISPUTE (NAMIBIA)

AFR SOUTH RHODESIA

AFP PORTUGUESE COLONIAL AFRICA

AFC CONGO CRISIS

AFS SOUTH AFRICA IN GENERAL

OTHER CODES

SEA SEA ORIENTED RESOLUTIONS

NAO NOT AREA ORIENTED/UNASSIGNED/UNKNOWN